Agent's reference: 05-430-B

### IN THE UNITED STATES RECEIVING OFFICE (RO/US)

In re A	pplication of:	)
	Jung Kyu SUN	) Group Art Unit: TBA
Serial 1	No.: 10/560,478	) Examiner: TBA
Filed:	December 12, 2005	)
For:	Method of Controlling a PAPR Using a Walsy Code Allocation Technique in a CDMA-2000 System	) ) )

#### TRANSMITTAL LETTER

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sirs:

In regard to the above-identified application we are transmitting herewith the attached:

- 1) International Preliminary Report on Patentability;
- 2) **CERTIFICATE OF MAILING BY "EXPRESS MAIL" UNDER 37 CFR** § 1.10: The undersigned hereby certifies that this Transmittal Letter and the paper, as described hereinabove, are being deposited with the United States Postal Service with sufficient postage as "Express Mail Post Office to Addressee" in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandra, Virginia, 22313-1450, on this 6<sup>th</sup> day of March, 2006, Express Mail No. **EV839411335US**.

Respectfully submitted,

Ву

Robert J. Irvine III
Registration No. 41,865
Attorney for the Applicant(s)

### PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

### **PCT**

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To:

YOON, Jee Hong Hannuri Bldg. 219, Naeja-dong Chongno-gu Seoul 110-053 RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year)

09 February 2006 (09.02.2006)

Applicant's or agent's file reference

FE241492

IMPORTANT NOTICE

International application No. PCT/KR2004/001881

International filing date (day/month/year) 26 July 2004 (26.07.2004)

Priority date (day/month/year)
25 July 2003 (25.07.2003)

Applicant

UTSTARCOM KOREA LIMITED et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)



The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Philippe Becamel

Facsimile No.+41 22 338 70 90

Facsimile No.+41 22 740 14 35

Form PCT/IB/326 (January 2004)

### PATENT COOPERATION TREATY

## · PCT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FE241492	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/KR2004/001881	International filing date (day/month/year) 26 July 2004 (26.07.2004)	Priority date (day/month/year) 25 July 2003 (25.07.2003)	
International Patent Classification (8tl See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237		
Applicant UTSTARCOM KOREA LIMITED			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indications	relating to the following items:		
	Box No. I Basis of the report			
	Box No. II Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	No. VIII Certain observations on the international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).			
			Date of issuance of this report 30 January 2006 (30.01.2006)	
	The International Bureau of WIPO  Authorized officer			
	34, chemin des Co 1211 Geneva 20, S	olombettes	Philippe Becamel	
Facs	simile No. +41 22 740 14 35		Telephone No. +41 22 338 70 90	
Form	PCT/IR/373 (January 2004)			

### **COPY FOR IB**

from the NTERNATIONAL SEARCHING AU	PATENT COOPE THORITY	RATION TREAT	REC'D 0 5 NOV 2004		
To: YOON, Jee Hong			PCT PCT		
Hannuri Bldg. 219 Naeja-dong, Chongno-gu, Seoul 110-053, Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)			
		Date of mailing (day/month/year) 28	OCTOBER 2004 (28.10.2004)		
Applicant's or agent's file reference		FOR FURTHER ACT	TION		
FE241492			paragraph 2 below		
International application No.	International filing date	(443),	Priority date(day/month/year)		
PCT/KR2004/001881	26 JULY 2004 (26		25 JULY 2003 (25.07.2003)		
International Patent Classification (IP	C) or both national classification	ation and IPC			
IPC7 H04B 1/69					
Applicant  UTStarcom Korea Limited of the control o		ms:			
Box No. I Basis of the					
Box No. II Priority					
Box No. III Non-establi	shment of opinion with rega	ard to novelty, inventive st	ep and industrial applicability		
<del></del>	ty of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	numents cited	41			
	Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application					
International Preliminary Examin other than this one to be the IPEA opinions of this International Sea	and the chosen IPEA has reching Authority ("IPEA") except and the chosen IPEA has reching Authority will not be ove, considered to be a writtnere appropriate, with amenthe expiration of 22 months T/ISA/220.	ept that this does not apply notified the International Beso considered.  en opinion of the IPEA, the dments, before the expiration.	sidered to be a written opinion of the y where the applicant chooses an Authority sureau under Rule 66.1bis(b) that written e applicant is invited to submit to the ion of 3 months from the date of mailing ichever expires later.		

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

JEONG, Jae Woo

Telephone No. 82-42-481-5718



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001881

Bo	No. I Basis of this opinion
1	With regard to the language, this opinion has been established on the basis of the international application in the language in
1.	which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing table(s) related to the sequence listing
	b. format of material
	in wirtten format in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
1	·

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/001881

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claims	1 - 3	YES
Claims		NO
Claims	1 - 3	YES
Claims		NO
) Claims	1 - 3	YES
Claims		NO
	Claims Claims Claims	Claims  Claims  Claims  Claims  1 - 3  Claims  1 - 3

### 2. Citations and explanations:

D1: US 5991262 D2: US 6310869 D3: US 6396868

The claimed inventions relate to a method of allocating Walsh codes in a CDMA2000 system, in which the lowest Walsh code among a Walsh code set is allocated to a new channel if there are out-of-use channels among the previously allocated channels.

The closest prior art D1 discloses a method of reducing peak-to-average power ratio of a composite signal, which comprises the steps of producing a peak-reducing waveform coded with one or more codes which are orthogonal to a plurality of assigned codes and summing the peak-reducing waveform to the composite signal to produce the composite signal having reduced peak-to-average power ratio.

Both of the claimed invention and D1 relate to the same subject matter of reducing peak-to-average power ratio by proper selection of the Walsh code. However, D1 does not disclose a step of allocating the lowest Walsh code among a Walsh code set to a new channel, which is a prominent feature of the claimed invention. Moreover, this step of allocating the lowest Walsh code to reduce the peak-to-average power ratio is not obvious to a person skilled in the art or is not suggested in the prior art. Consequently, the claimed inventions 1-3 are considered to fulfil both of the requirement of novelty under PCT Article 33(2) and the requirement of inventive step under PCT Article 33(3).